

Title (en)
EMBEDDED TOUCHSCREEN AND DISPLAY DEVICE

Title (de)
EINGEBETTETER BERÜHRUNGSBILDSCHIRM UND ANZEIGEVORRICHTUNG

Title (fr)
ÉCRAN TACTILE INCORPORÉ ET DISPOSITIF D'AFFICHAGE

Publication
EP 3151098 A4 20180117 (EN)

Application
EP 14863057 A 20140926

Priority
• CN 201410239885 A 20140530
• CN 2014087598 W 20140926

Abstract (en)
[origin: US2015378474A1] An in-cell touch panel and a display device are disclosed. The in-cell touch panel includes a top substrate and a bottom substrate disposed oppositely to each other, a common electrode layer disposed on a side of the bottom substrate that faces the top substrate and a touch sensing chip. The common electrode layer is partitioned into a plurality of independent self-capacitance electrodes and a plurality of wires for connecting the self-capacitance electrodes to the touch sensing chip. The touch sensing chip is configured to apply common electrode signals to self-capacitance electrodes in a display interval and determine touch positions by detecting capacitance value variation of self-capacitance electrodes in a touch interval. No additional layer is needed for the in-cell touch panel, thereby saving production costs and improving production efficiency.

IPC 8 full level
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CPC (source: EP US)
G06F 3/0412 (2013.01 - EP US); **G06F 3/04164** (2019.04 - EP US); **G06F 3/0443** (2019.04 - EP US); **G09G 3/00** (2013.01 - EP US)

Citation (search report)
• [X] TW M453900 U 20130521 - SUPER TOUCH CO LTD [TW]
• [I] CN 103793120 A 20140514 - BOE TECHNOLOGY GROUP CO LTD
• [I] CN 103279245 A 20130904 - FOCALTECH SYSTEMS LTD
• [A] US 2014132560 A1 20140515 - HUANG CHIEN-YING [TW], et al
• [A] US 2013307817 A1 20131121 - KIM SUNGCHUL [KR]
• See references of WO 2015180335A1

Designated contracting state (EPC)
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